Title (en)

MODULAR TOOL FOR WELLBORE CLEANING

Title (de)

MODULARES WERKZEUG ZUR BOHRLOCHREINIGUNG

Title (fr)

OUTIL MODULAIRE POUR LE NETTOYAGE DE PUITS DE FORAGE

Publication

EP 2638237 B1 20210317 (EN)

Application

EP 11785467 A 20111110

Priority

- GB 201019174 A 20101112
- GB 2011052190 W 20111110

Abstract (en)

[origin: GB2485394A] A plurality of modular debris chambers 11,12,13 in series in a debris extraction tool each include a bucket 17 for collecting debris, an inner flow tube 14 being preferably concentrically arranged within the bucket 17, and a deflector arranged in a lower end of each bucket 17 for deflecting a flow of debris from the inner flow tube 14 of a subsequent, lower modular debris chamber which is connectable to a lower end of the modular debris chamber. In this way, a reverse circulation venturi flow carries fluid comprising debris up through top opening 16 of inner flow tube 14, striking a concave or flat shaped deflector 20 positioned at the lower end of the next higher bucket 17, reflecting debris into its own bucket 17 while still allowing circulation of fluid up through the tool to the next chamber in series.

IPC 8 full level

E21B 27/00 (2006.01)

CPC (source: EP GB US)

E21B 21/00 (2013.01 - GB); **E21B 27/00** (2013.01 - EP GB US); **E21B 31/00** (2013.01 - GB)

Citation (examination)

- US 5176208 A 19930105 - LALANDE PHILLIP T [US], et al
- US 2915125 A 19591201 - HANES VAUGHN D
- US 5402850 A 19950404 - LALANDE PHILLIP T [US], et al
- US 2004251023 A1 20041216 - PLUCHEK CLAYTON STANLEY [US], et al
- US 2009200012 A1 20090813 - DAVIS JOHN P [US], et al

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DOCDB simple family (publication)

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GB 201019174 A 20101112; AU 2011327889 A 20111110; BR 112013011799 A 20111110; CA 2817638 A 20111110; EP 11785467 A 20111110; GB 2011052190 W 20111110; MY PI2013700766 A 20111110; US 201113294703 A 20111111